Number	Hits	Search Text	DB	Time stamp
1	0	("wo-9944972-$.did.").PN.	EPO; JPO; DERWENT	2002/06/28 14:12
2	1	wo-9944972-$.did.	EPO; JPO; DERWENT	2002/06/28 14:46
3	235	252/183.11-183.12.ccls.	USPAT; US-PGPUB	2002/06/28 14:46
4	1233	n,n-diethylhydroxylamine	USPAT; US-PGPUB	2002/06/28 14:47
5	0	252/183.11-183.12.ccls. and n,n-diethylhydroxylamine	USPAT; US-PGPUB	2002/06/28 14:47
6	2208	diethylhydroxylamine	USPAT; US-PGPUB	2002/06/28 14:47
7	341	phenylhydroxylamine	USPAT; US-PGPUB	2002/06/28 14:48
8	0	252/183.11-183.12.ccls. and diethylhydroxylamine and phenylhydroxylamine	USPAT; US-PGPUB	2002/06/28 14:48
10	0	252/183.11-183.12.ccls. and phenylhydroxylamine	USPAT; US-PGPUB	2002/06/28 14:55
9	2	252/183.11-183.12.ccls. and diethylhydroxylamine	USPAT; US-PGPUB	2002/06/28 14:55
11	0	252/182.29,403,404.ccls,	USPAT; US-PGPUB	2002/06/28 14:55
12	2346	252/182.29,403,404.ccls.	USPAT; US-PGPUB	2002/06/28 15:00
13	4	phenylhydroxylamine and 252/182.29,403,404.ccls.	USPAT; US-PGPUB	2002/06/28 15:04
14	30	"n-nitroso-n-phenylhydroxylamine"	USPAT; US-PGPUB	2002/06/28 15:05
15	15368	polymerization same inhibit$4	USPAT; US-PGPUB	2002/06/28 15:06
16	245	diethylhydroxylamine and (polymerization same inhibit$4)	USPAT; US-PGPUB	2002/06/28 15:06
17	5	(diethylhydroxylamine and (polymerization same inhibit$4)) and phenylhydroxylamine	USPAT; US-PGPUB	2002/06/28 17:15
-	2821	polyester and bromine and antimony	USPAT; US-PGPUB	2002/06/28 17:16
-	23460	flame ADJ10 retard$4	USPAT; US-PGPUB	2002/06/28 17:16
-	1498	(polyester and bromine and antimony) and (flame ADJ10 retard$4)	USPAT; US-PGPUB	2002/06/28 17:16
-	19717	ptfe or polytetrafluoroethylnene	USPAT; US-PGPUB	2002/06/29 08:19
-	90	((polyester and bromine and antimony) and (flame ADJ10 retard$4)) and (ptfe or polytetrafluoroethylnene)	USPAT; US-PGPUB	2002/06/28 17:50
-	801	219/121.69.ccls.	USPAT; US-PGPUB	2002/06/28 17:46
-	0	(((polyester and bromine and antimony) and (flame ADJ10 retard$4)) and (ptfe or polytetrafluoroethylnene)) and 219/121.69.ccls.	USPAT; US-PGPUB	2002/06/28 17:46
-	68326	219/$.ccls.	USPAT; US-PGPUB	2002/06/28 17:47
-	0	(((polyester and bromine and antimony) and (flame ADJ10 retard$4)) and (ptfe or polytetrafluoroethylnene)) and 219/$.ccls.	USPAT; US-PGPUB	2002/06/28 17:47
-	2	((polyester and bromine and antimony) and (flame ADJ10 retard$4)) and 219/$.ccls.	USPAT; US-PGPUB	2002/06/28 17:50
-	3524	219/121.6-121.69.ccls.	USPAT; US-PGPUB	2002/06/28 17:51
-	210130	laser	USPAT; US-PGPUB	2002/06/28 17:51
-	3269	219/121.6-121.69.ccls. and laser	USPAT; US-PGPUB	2002/06/28 17:51
-	655739	mark$4	USPAT; US-PGPUB	2002/06/28 17:51

-	914	(219/121.6-121.69.ccls. and laser) and mark$4	USPAT; US-PGPUB	2002/06/28 17:52
-	0	((polyester and bromine and antimony) and (flame ADJ10 retard$4)) and ((219/121.6-121.69.ccls. and laser) and mark$4)	USPAT; US-PGPUB	2002/06/28 17:53
-	0	((polyester and bromine and antimony) and (flame ADJ10 retard$4)) and (219/121.6-121.69.ccls. and laser)	USPAT; US-PGPUB	2002/06/28 17:53
-	52	((219/121.6-121.69.ccls. and laser) and mark$4) and polyester	USPAT; US-PGPUB	2002/06/28 18:02
-	64918	terephthalate	USPAT; US-PGPUB	2002/06/28 18:02
-	26	((219/121.6-121.69.ccls. and laser) and mark$4) and terephthalate	USPAT; US-PGPUB	2002/06/28 18:02
-	1	5783105.pn.	USPAT; US-PGPUB	2002/06/29 08:47
-	50	(44/597).CCLS.	USPAT; US-PGPUB	2002/06/29 08:54
-	49	(44/553).CCLS.	USPAT; US-PGPUB	2002/06/29 14:11

Enter a chemical name, CAS Number, molecular formula, or molecular weight

N-nitroso-N-phenylhydroxylamine New Search

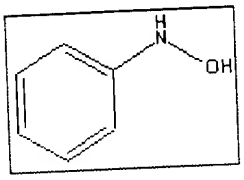
Or choose: Substructure Query with Plug-In or Structure Query with Java

N-phenylhydroxylamine [100-65-2]

Synonyms: phenylhydroxylamine; N-hydroxyaniline; beta-phenylhydroxylamine; hydroxylaminobenzene;

C_6H_7NO

109.1274



View with ChemDraw Plugin

VIEW CHEM3D MODEL

Add Compound Add or Change Property Add Link Feedback

ACX Number	X1016743-8	CAS RN	100-65-2
Melting Point (°C)	83 - 84	Density	
Boiling Point (°C)		Vapor Density	
Refractive Index		Vapor Pressure	
Evaporation Rate		Water Solubility	Soluble in hot water
Flash Point (°C)		EPA Code	
DOT Number		RTECS	NC4900000
Comments	Tan to brown crystals		

More information about the chemical is available in these categories:

Biochemistry

Biocatalysis/Biodegradation Database

Information about this particular compound

Health

DN 113:232247
TI Epoxidation of cyclohexenylmethyl (meth)acrylate in presence of polymerization inhibitors
IN Fukuya, Kazuaki; Kuwana, Akihiro
PA Daicel Chemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07D301-36
ICS C07D303-16; C08F0.10-32; C08G059-20; C09D004-02; C09D133-06; C09D163-00
CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 27
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02188576	A2	19900724	JP 1989-5816	19890112
	JP 2704284	B2	19980126		

OS MARPAT 113:232247
AB 3,4-Epoxycyclohexylmethyl acrylate and methacrylate (I) are prepd. by epoxidn. of 3-cyclohexen-1-ylmethyl acrylate and methacrylate (II) with an oxidizing agent in the presence of polymn. inhibitors comprising .gtoreq.1 compd. selected from hydroquinone, hydroquinone mono-Me ether (III), p-benzoquinone, cresol, tert-butylcatechol, phenols substituted by tert-Bu and other groups, 2,5-dihydroxy-p-quinone, piperidine, ethanolamine, .alpha.-nitroso-.beta. naphthol, HNPh2, phenothiazine, N-nitrosophenylhydroxylamine, and Et2NOH and .gtoreq.1 compd. selected from H3PO4, K3PO4, Na3PO4, Na(NH4)HPO4, H4P2O7, K4P2O7, Na4P2O7, 2-ethylhexyl pyrophosphate, K or Na 2-ethylhexyl pyrophosphate, tripolyphosphoric acid, K or Na 2-ethylhexyl tripolyphosphate, and Na or K 2-ethylhexyl tetrapolyphosphate. Thus, a mixt. of 14.4 kg II, 52.8 kg AcOEt, 12 g III, and 12 g H4P2O7 was treated with 24.8 kg 30% AcOOH during 4 h at 50.degree. and aged 4 h to give 14.2 kg product contg. 94.7% I, 1 g of which dissolved completely in 10 g heptane.
ST epoxycyclohexylmethyl acrylate prepn polymn inhibitor; methacrylate epoxycyclohexylmethyl prepn polymn inhibitor; epoxidn cyclohexenylmethyl acrylate polymn inhibitor; hydroquinone polymn inhibitor methacrylate; pyrophosphoric polymn inhibitor acrylate; phenol polymn inhibitor acrylate; amine polymn inhibitor acrylate; phosphate polymn inhibitor acrylate
IT Polymerization inhibitors
(in epoxidn. of cyclohexenylmethyl (meth)acrylate)
IT Epoxidation
(of cyclohexenylmethyl (meth)acrylate, polymn. inhibitors in)
IT Phenols, uses and miscellaneous
RL: USES (Uses)
(polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)
IT 21367-03-3, 3-Cyclohexen-1-ylmethyl acrylate 21367-03-3, 3-Cyclohexen-1-ylmethyl methacrylate
RL: RCT (Reactant)
(epoxidn. of, polymn. inhibitors in)

IT 88-32-4, 3-tert-Butyl-4-methoxyphenol 92-84-2, Phenothiazine
106-51-4,
p-Benzoquinone, uses and miscellaneous 110-89-4, Piperidine, uses and
miscellaneous 121-00-6, 2-tert-Butyl-4-methoxyphenol 122-39-4,
Diphenylamine, uses and miscellaneous 123-31-9, Hydroquinone, uses and
miscellaneous 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and
miscellaneous 131-91-9, .alpha.-Nitroso-.beta.-naphthol 141-43-5,
Ethanolamine, uses and miscellaneous **148-97-0** 150-76-5,
Hydroquinone monomethyl ether 615-94-1 1319-77-3, Cresol 1693-78-3,
2-Ethylhexyl pyrophosphate 1879-09-0, 2,4-Dimethyl-6-tert-butylphenol
2466-09-3, Pyrophosphoric acid **3710-84-7**, N,N-
Diethylhydroxylamine 7320-34-5, Potassium pyrophosphate 7632-05-5,
Sodium phosphate 7664-38-2, Phosphoric acid, uses and miscellaneous
7722-88-5 10380-08-2, Tripolyphosphoric acid 12767-83-8, Sodium
2-ethylhexyl tripolyphosphate 13011-54-6, Ammonium sodium hydrogen
phosphate 16068-46-5, Potassium phosphate 27213-78-1,
tert-Butylcatechol 130455-01-5 130455-02-6 130455-03-7
130455-65-1
130455-66-2
RL: USES (Uses)
(polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)
IT 64630-63-3P, 3,4-Epoxycyclohexylmethyl acrylate 82428-30-6P,
3,4-Epoxycyclohexylmethyl methacrylate
RL: PREP (Preparation)
(prepn. of, by epoxidn., polymn. inhibitors in)

L2 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1966:457247 CAPLUS
DN 65:57247
OREF 65:10697f,10698a
TI Polymerization inhibitors
PA Copolymer Rubber and Chemical Corp.
SO 22 pp.
DT Patent
LA Unavailable
IC C08F
CC 45 (Synthetic High Polymers)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 6511747		19660311	NL	
PRAI	US		19640910		

AB Org. N-nitrosohydroxylamines or salts thereof are used in vinylpyridine, unsatd. hydrocarbons, and unsatd. esters to inhibit thermal polymerization and (or) the growth of popcorn polymer therein, e.g. during storage. They need not be removed prior to use of the monomers in catalytic polymerizations. NH4 salts of **N-nitroso-N-phenylhydroxylamine** (I) or of N-nitroso-N-(1-naphthyl)hydroxylamine are very useful. I is twice as effective as a thermal polymerization inhibitor than the conventional tert-butylpyrocatechol (II). Copolymerization of butadiene with styrene by a cold rubber polymerization process is not retarded by I while II prevents any reaction.

FILE 'CAPLUS' ENTERED AT 13:50:27 ON 29 JUN 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 29 Jun 2002 VOL 137 ISS 1
FILE LAST UPDATED: 27 Jun 2002 (20020627/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s n-nitros-n-phenylhydroxylamine
       2436803 N
            57 NITROS
            34 NITROSES
            91 NITROS
               (NITROS OR NITROSES)
       2436803 N
          1596 PHENYLHYDROXYLAMINE
           198 PHENYLHYDROXYLAMINES
          1685 PHENYLHYDROXYLAMINE
               (PHENYLHYDROXYLAMINE OR PHENYLHYDROXYLAMINES)
L1           0 N-NITROS-N-PHENYLHYDROXYLAMINE
               (N(W)NITROS(W)N(W)PHENYLHYDROXYLAMINE)

=> s n-nitroso-n-phenylhydroxylamine
       2436803 N
         22271 NITROSO
            15 NITROSOS
         22276 NITROSO
               (NITROSO OR NITROSOS)
       2436803 N
          1596 PHENYLHYDROXYLAMINE
           198 PHENYLHYDROXYLAMINES
          1685 PHENYLHYDROXYLAMINE
               (PHENYLHYDROXYLAMINE OR PHENYLHYDROXYLAMINES)
L2          44 N-NITROSO-N-PHENYLHYDROXYLAMINE
               (N(W)NITROSO(W)N(W)PHENYLHYDROXYLAMINE)

=> s 100-65-2/rn
           830 100-65-2
```

```
            30 100-65-2D
L3         803 100-65-2/RN
               (100-65-2 (NOTL) 100-65-2D )

=> s L2 and L3
L4           0 L2 AND L3

=> d L2 1-44 ti

L2   ANSWER 1 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Determination of bismuth, selenium and tellurium in nickel-based alloys
     and pure copper by flow-injection hydride generation atomic absorption
     spectrometry with ascorbic acid prereduction and cupferron
     chelation-extraction

L2   ANSWER 2 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Stabilized monomer composition

L2   ANSWER 3 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Separation and direct UV detection of lanthanides complexed with
cupferron
     by capillary electrophoresis

L2   ANSWER 4 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   O-Alkylation of Cupferron: Aiming at the Design and Synthesis of
     Controlled Nitric Oxide Releasing Agents

L2   ANSWER 5 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Polymerization inhibiting compositions, noncorrosive inhibitors and
method
     for using

L2   ANSWER 6 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Unsaturated polyester-based coating compositions containing N-substituted
     N-nitrosohydroxylamine salts

L2   ANSWER 7 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Synthesis and spectral data of some new N-nitroso-
     N-phenylhydroxylamine (cupferron) derivatives

L2   ANSWER 8 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Determination of trace europium by adsorptive cathodic stripping
     voltammetry after complexation with cupferron

L2   ANSWER 9 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Nitroso compounds for use as antioxidants for preparation of
     (meth)acrylate esters bearing alicyclic epoxy groups

L2   ANSWER 10 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Preparation of N,N-dimethylacrylamide or N,N-dimethylmethacrylamide

L2   ANSWER 11 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Purifying aqueous solutions of indium salts

L2   ANSWER 12 OF 44  CAPLUS  COPYRIGHT 2002 ACS
TI   Purification of unsaturated carboxylic acid isocyanatoalkyl esters by
     distillation
```

L2 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Discharge characteristics of metal complexes of N-nitroso-N-phenylhydroxylamine as cathode materials for lithium primary cells

L2 ANSWER 14 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Extraction-polarographic determination of trace metals in rubbers

L2 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Polymerization inhibitors for acrylic monomers

L2 ANSWER 16 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Selective removal of trace copper ion in nickel electroplating bath with chelating reagents

L2 ANSWER 17 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI In vivo and in vitro inhibition of mung bean superoxide dismutase by cupferron

L2 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Azo- and azoxy compounds. IV. Alkylation of **N-nitroso-N-phenylhydroxylamine**. Synthesis and mass spectra of 1-alkoxydiazene 2-oxides

L2 ANSWER 19 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Photocuring compositions

L2 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Reaction of **N-nitroso-N-phenylhydroxylamine** with epoxides

L2 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Photocurable coating materials

L2 ANSWER 22 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Photocurable coating materials

L2 ANSWER 23 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Planar dicarbonylrhodium(I) and -iridium(I) complexes with polarizable aromatic ligands

L2 ANSWER 24 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Ultraviolet and infrared spectra of tetrakis(cupferronato) and (neocupferronato)uranium(IV)

L2 ANSWER 25 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Light-sensitive photographic material

L2 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Polymerization inhibitors for the catalytic hydration of acrylonitrile

L2 ANSWER 27 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Ultraviolet and infrared spectra of cupferron and neocupferron

L2 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Thermodynamics of metal-ligand bond formation. III. Adducts of heterocyclic bases with bis(N-nitroso-N-phenylhydroxylaminato)copper(II)

L2 ANSWER 29 OF 44 CAPLUS COPYRIGHT 2002 ACS

TI Preconcentration of trace amounts of molybdenum in soil extract by coprecipitation with cupferron in the presence of iron

L2 ANSWER 30 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Adsorption of iodide by soils

L2 ANSWER 31 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Some complexes of americium and curium with oxine, cupferron, and N-benzoylphenylhydroxylamine

L2 ANSWER 32 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Determination of vanadium by atomic absorption spectrophotometry

L2 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Polymerization inhibitors

L2 ANSWER 34 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI New heterocycles containing boron and nitrogen

L2 ANSWER 35 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Coordination compounds of pentavalent vanadium

L2 ANSWER 36 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI New synthesis of N-nitroso-N-arylhydroxylamines

L2 ANSWER 37 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI The distribution coefficient of cupferron

L2 ANSWER 38 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Fungicidal solubilized metal salts of N-nitroso-N-arylhydroxylamines

L2 ANSWER 39 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Extraction and flame-spectrophotometric determination of vanadium

L2 ANSWER 40 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Effect of chelating agents on the survival of irradiated mice

L2 ANSWER 41 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Stabilization of polymerizable heterocyclic nitrogen compounds

L2 ANSWER 42 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Choline dehydrogenase of the liver

L2 ANSWER 43 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI Salts of **N-nitroso-N-phenylhydroxylamines** as fungicides and bactericides

L2 ANSWER 44 OF 44 CAPLUS COPYRIGHT 2002 ACS
TI The extraction of metal complexes. IV. The dissociation constants and partition coefficients of 8-quinolinol (oxine) and N-nitro-N-phenylhydroxyamine (cupferron)

=> d l2 2 5 6 10 15 26 33 all

L2 ANSWER 2 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 2001:152347 CAPLUS
DN 134:193861

TI Stabilized monomer composition
IN Scharf, Jakob; Rau, Hartmut; Gotzen, Friedrich
PA Bohm GmbH, Germany
SO Eur. Pat. Appl., 8 pp.
CODEN: EPXXDW
DT Patent
LA German
IC ICM C09K015-20
ICS C07C007-20; C07B063-04
CC 35-2 (Chemistry of Synthetic High Polymers)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1078973	A2	20010228	EP 2000-117696	20000817
	EP 1078973	A3	20010307		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	DE 19940623	A1	20010301	DE 1999-19940623	19990827
	JP 2001089417	A2	20010403	JP 2000-254164	20000824
PRAI	DE 1999-19940623	A	19990827		

AB A storage-stable synergistic inhibitor compn., useful esp. in the manuf. of hydroxyalkyl (meth)acrylate monomers, comprises (1-10):1 (wt. parts) mixt. of Et_2NOH and PhN(NO)OH, resp., as synergistic inhibitor combination.

ST polymn inhibitor diethylhydroxylamine phenylnitrosohydroxylamine; nitrosophenylhydroxylamine diethylhydroxylamine polymn inhibitor hydroxyethyl acrylate; hydroxyethyl acrylate manuf stabilization diethylhydroxylamine phenylnitrosohydroxylamine synergistic inhibitor

IT Monomers
PL: MSC (Miscellaneous)
(ethylenically unsatd.; stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and **N-nitroso-N-phenylhydroxylamine**)

IT Polymerization inhibitors
(stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and **N-nitroso-N-phenylhydroxylamine**)

IT 148-97-0, **N-Nitroso-N-phenylhydroxylamine**
PL: NUU (Other use, unclassified); USES (Uses)
(stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and)

IT 818-61-1, 2-Hydroxyethyl acrylate 5205-93-6 13081-44-2, N,N-Dimethylaminoethyl methacrylamide
PL: MSC (Miscellaneous)
(stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and **N-nitroso-N-phenylhydroxylamine**)

IT 135-20-6, Cupferron
PL: NUU (Other use, unclassified); USES (Uses)
(stabilized monomer compn. contg. synergistic combination of N,N-diethylhydroxylamine and **N-nitroso-N-phenylhydroxylamine**)

IT 3710-84-7, N,N-Diethylhydroxylamine
PL: NUU (Other use, unclassified); USES (Uses)
(stabilized monomer compn. contg. synergistic combination of **N-nitroso-N-phenylhydroxylamine** and)

L2 ANSWER 5 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1999:176891 CAPLUS
DN 131:200775
TI Polymerization inhibiting compositions, noncorrosive inhibitors and method
for using
IN Ukita, Keizo; Onodera, Yuko
PA Nippon Zeon Co., Ltd., Japan
SO PCT Int. Appl., 64 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC ICM C07C011-18
ICS C07C011-167; C07C239-08; C07C007-20; C07F009-09; C07F009-50; C08F002-40
CC 37-2 (Plastics Manufacture and Processing)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9944972	A1	19990910	WO 1999-JP1017	19990303
	W: CN, ID, JP, KR, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 1061059	A1	20001220	EP 1999-907850	19990303
	R: DE, ES, FR, GB, IT, NL, PT				
PRAI	JP 1998-67872	A	19980303		
	JP 1998-292987	A	19980930		
	WO 1999-JP1017	W	19990303		

OS MARPAT 131:200775
AB The inhibitor compns. comprise (A) .gtoreq.1 compd. having a NO radical group or its precursor and (B) a P-contg. compd. as corrosion inhibitor in an A/B wt. ratio of 1:10 to 100:1. Monomer compns. contg. conjugated dienes, arom. vinyl compds., ethylenically unsatd. nitrile compds. or/and .alpha.-olefins are effectively inhibited from polymn. by including the inhibitors during handling and storage. Thus, heating a compn. of 20 g conjugated diene-contg. hydrocarbon mixt. in the presence of 180 ppm (added at 60 ppm over 8 h for 3 times), Fe flakes, N,N-diethylhydroxyamine (480 ppm over 8 h for 3 times) and Latemul P 909 (phosphate based surfactant; 480 ppm over 8 h for 3 times) for 24 h at 125.degree. showed polymer formation 0.07%, high boiling fraction 0.25% and no corrosion of Fe flakes.
ST anticorrosive phosphate surfactant polymn inhibitor nitroxide; diene monomer polymn inhibitor nitroxide radical
IT Alkadienes
PL: PCT (Reactant); RACT (Reactant or reagent)
(conjugated, monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)
IT Polymerization inhibitors
(hindered nitroxides; polymn. inhibiting compns., noncorrosive inhibitors and method for using)
IT Alkadienes
PL: MSC (Miscellaneous)
(monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)
IT Vinyl compounds, reactions
PL: PCT (Reactant); RACT (Reactant or reagent)

(monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT Corrosion inhibitors
(polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT Nitroxides
RL: MOA (Modifier or additive use); USES (Uses)
(polymn. inhibitors/precursors; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 2516-92-9, Bis(1-oxyl-2,2,6,6-tetramethylpiperidine-4-yl) sebacate
RL: MOA (Modifier or additive use); USES (Uses)
(Ciba 5415, polymn. inhibitor precursors; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 121-45-9 554-70-1, Triethylphosphine 603-35-0, Triphenylphosphine, uses 1608-26-0 3049-24-9, Triphenyl phosphonate 7558-79-4, Disodium phosphate 7558-80-7, Monosodium phosphate 7664-38-2, Phosphoric acid, uses 7664-38-2D, Phosphoric acid, esters or salts, uses 9021-89-0 9071-85-6 26523-78-4, Tris(nonylphenyl) phosphite 51811-79-1, Latemul P 909 82905-49-5, Pelex RP
RL: MOA (Modifier or additive use); USES (Uses)
(corrosion inhibitors; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 78-79-5, reactions 106-99-0, 1,3-Butadiene, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(monomers; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 100-42-5, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 135-20-6, **N-Nitroso-N-phenylhydroxylamine** ammonium salt 3710-84-7 7632-00-0, Sodium nitrite
RL: MOA (Modifier or additive use); USES (Uses)
(polymn. inhibitor precursor; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

IT 2226-96-2 2896-70-0, 4-Oxo-2,2,6,6-tetramethylpiperidine-1-oxyl
RL: MOA (Modifier or additive use); USES (Uses)
(polymn. inhibitor; polymn. inhibiting compns., noncorrosive inhibitors and method for using)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Anon; US 5856562 A CAPLUS
(2) Anon; EP 810196 A1 CAPLUS
(3) Japan Synthetic Rubber Co, Ltd; JP 05-202256 A 1993 CAPLUS
(4) Mitsubishi Chemical Corp; JP 09-316026 A 1997 CAPLUS

L2 ANSWER 6 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1999:78624 CAPLUS
DN 130:197965
TI Unsaturated polyester-based coating compositions containing N-substituted N-nitrosohydroxylamine salts
IN Yonezawa, Miwako; Yamazaki, Takahide
PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
IC ICM C09D167-06
ICS C09D005-04
CC 42-10 (Coatings, Inks, and Related Products)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11029740	A2	19990202	JP 1997-186801	19970711
JP 3259902	B2	20020225		

AB Coating compns. with good storage stability contain unsatd. polyesters, thixotropic agents and/or pigments, accelerators, and the title salts. Thus, a compn. contg. neopentyl glycol-propylene glycol-isophthalic acid-maleic anhydride-styrene copolymer 100, Aerosil 200 2, Co naphthenate 0.5, and **N-nitroso-N-phenylhydroxylamine** Al salt 0.015 part showed a small change in gelling time with Kayamec BUY after standing.

ST unsatd polyester coating nitroso hydroxylamine additive; thixotropic agent
unsatd polyester nitrosohydroxylamine coating; glycol isophthalic maleic styrene copolymer coating; phthalic maleic styrene glycol copolymer coating

IT Naphthenic acids, uses
RL: CAT (Catalyst use); USES (Uses)
(cobalt salts, accelerator; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT Coating materials
(storage-stable; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT Crosslinking catalysts
Pigments, nonbiological
Thixotropic agents
(unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT Polyesters, uses
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(unsatd.; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 13463-67-7, CR 90, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(CR 90, pigment; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 60650-95-5, Titanium yellow
RL: TEM (Technical or engineered material use); USES (Uses)
(TY 55, pigment; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 7631-86-9, Aerosil 200, uses
RL: MOA (Modifier or additive use); USES (Uses)
(colloidal, thixotropic agent; unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 67939-21-3P, Isophthalic acid-maleic anhydride-neopentyl glycol-propylane glycol-styrene copolymer 220460-53-7P, Hexahydrophthalic anhydride-maleic anhydide-neopentyl glcol-propylene glycol-styrene copolymer
RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

IT 135-20-6, **N-Nitroso-N-phenylhydroxylamine** ammonium salt 120457-86-5, **N-Nitroso-N-phenylhydroxylamine** aluminum salt
RL: MOA (Modifier or additive use); USES (Uses)
(unsatd. polyester-based coating compns. contg. nitrosohydroxylamine salts)

L2 ANSWER 10 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1992:591354 CAPLUS
DN 117:191354
TI Preparation of N,N-dimethylacrylamide or N,N-dimethylmethacrylamide
IN Maruyama, Takashi; Hiraoka, Ryoichi; Okidaka, Isao; Kido, Osamu
PA Kohjin Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07C233-09
ICS C07C231-12
CC 23-18 (Aliphatic Compounds)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04154749	A2	19920527	JP 1990-276445	19901017
JP 2986891	B2	19991206		

AB N,N-Dimethyl(meth)acrylamide is prepd. by thermal decompn. of Me2NCH2CHRCONMe2 (I; R = H, Me) in liq.-phase using vapor-phase polymn. inhibitors. Thermal decompn. of a mixt. of 3120 g I (R = H) and **N-nitroso-N-phenylhydroxylamine** ammonium salt at 150-155.degree. for 30 h gave 2208 g crude monomers, which was vacuum distd. with phenothiazine under 10 mmHg to give 1525 g N,N-dimethylacrylamide of 99.2% purity.

ST methylacrylamide prepn; methylmethacrylamide prepn; acrylamide dimethyl prepn; methacrylamide dimethyl prepn; thermal decompn dimethylaminoamide polymn inhibitor

IT Polymerization inhibitors
(vapor-phase, in liq.-phase thermal decompn. of dimethylaminoamides)

IT 17268-47-2 38872-39-8
RL: RCT (Reactant)
(liq.-phase thermal decompn. of, vapor-phase polymn. inhibitors in)

IT 10102-43-9, Nitrogen monoxide, uses
RL: USES (Uses)
(polymn. inhibitor, in liq.-phase thermal decompn. of dimethylaminoamides)

IT 135-20-6 3316-09-4 143814-78-2, Diphenylpicrylhydrazide
RL: RCT (Reactant)
(polymn. inhibitor, in liq.-phase thermal decompn. of dimethylaminoamides)

IT 3680-03-7P, N,N-Dimethylacrylamide 6976-91-6P, N,N-Dimethylmethacrylamide
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

L2 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1988:38591 CAPLUS
DN 108:38591

TI Polymerization inhibitors for acrylic monomers
IN Mukoyama, Hideaki; Hiraoka, Ryoichi
PA Kohjin Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C08F020-56
ICS C07C081-00; C08F002-00
CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 23

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62187710	A2	19870817	JP 1986-28911	19860214

PI JP 62187710 A2 19870817 JP 1986-28911 19860214

AB Polymn. inhibitors for H2C:C(R)CONHR1 (I; R = H, methyl; R1 = C1-3 alkyl) comprise nitroso compds., inorg. stabilized radicals, and/or org. stabilized radicals. Thus, when 10 parts I (R = H, R1 = Me) was heated at 100.degree. under reduced pressure for 23 h in the presence of 0.05 part 4-ONC6H4NMe2, no polymn. was obsd. even after 20 h continuous heating at 120.degree..

ST polymn inhibitor alkyl acrylamide; nitroso compd polymn inhibitor; methacrylamide alkyl polymn inhibitor; nitrosodimethylaniline polymn inhibitor methylacrylamide

IT Nitroso compounds
RL: USES (Uses)
(polymn. inhibitors, for alkyl(meth)acrylamides)

IT Polymerization inhibitors
(popcorn, for alkyl(meth)acrylamides, nitroso compds. or (in)org. radicals as)

IT 1187-59-3, N-Methylacrylamide 3887-02-3, N-Methylmethacrylamide 25999-13-7, N-Propylacrylamide
RL: USES (Uses)
(polymn. inhibitor for, nitroso compds. or (in)org. radicals as)

IT 131-91-9, 1-Nitroso-2-hydroxynaphthalene 132-53-6, 2-Nitroso-1-hydroxynaphthalene 135-20-6, **N-Nitroso-N-phenylhydroxylamine** ammonium salt 138-89-6, N,N-Dimethyl-4-nitrosoaniline 586-96-9, Nitrosobenzene 2370-18-5, Galvinoxyl 2564-83-2 2896-70-0 10102-43-9, uses and miscellaneous 10102-44-0, uses and miscellaneous 24973-59-9, 2,4,6-Tri-tert-butylnitrosobenzene 30772-85-1, Nitrosodiphenylphenylamine 112340-28-0
RL: USES (Uses)
(polymn. inhibitors, for alkyl(meth)acrylamides)

L2 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1973:16804 CAPLUS
DN 78:16804
TI Polymerization inhibitors for the catalytic hydration of acrylonitrile
IN Modeen, James H.; Newton, Gary E.
PA Dow Chemical Co.
SO U.S., 3 pp.
CODEN: USXXAM
DT Patent
LA English
IC C07C
NCL 260561000N
CC 35-4 (Synthetic High Polymers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3689558	A	19720905	US 1970-17943	19700309
	BE 771665	A1	19720223	BE 1971-107349	19710823
PRAI	US 1970-17943		19700309		

AB Polymer formation during the catalytic hydration of acrylonitrile (I) to acrylamide (II) was reduced or prevented by the addn. of **N-nitroso-N-phenylhydroxylamine** ammonium salt (III) [135-20-6], a nitrosophenol, or a trialkylamine contg. C1-6 alkyl groups where < 2 alkyl groups were Me. The inhibitors could be deactivated by adjusting the pH so that the II could be polymerized. Thus, a neutral 7% I soln. contg. 25 ppm III was heated at 90.deg. in the presence of reduced catalyst contg. 40% Cu and 25.5% Cr to yield II without polymer formation. The II was made basic and was polymerized in the presence of a persulfate initiator to form polyacrylamide [9003-05-8], which was as good as the polymer obtained from II produced without an inhibitor. I hydrated over the reduced catalyst without the inhibitor or in the presence of hydroquinone Me ether formed polymer in the catalyst and in the reactor. Triethylamine [121-44-8] was also used instead of III, and produced similar polymer-free II.

ST acrylonitrile polymn inhibitor ethylamine; nitrosophenylhydroxylamine polymn inhibitor; amine polymn inhibitor acrylonitrile; acrylamide sepn acrylonitrile hydration

IT Polymerization inhibitors
(nitrosophenylhydroxylamine ammonium salt, for acrylamide)

IT Hydration, chemical
(of acrylonitrile, to acrylamide)

IT 79-06-1P, preparation
RL: PREP (Preparation)
(from acrylonitrile, by hydration)

IT 11104-65-7 39320-46-2
RL: USES (Uses)
(hydration of acrylonitrile to acrylamide in presence of)

IT 107-13-1, reactions
RL: RCT (Peactant)
(hydration of, to acrylamide)

IT 121-44-8, uses and miscellaneous 135-20-6
RL: USES (Uses)
(inhibitors, for polymn. of acrylamide)

L2 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2002 ACS
AN 1966:457247 CAPLUS
DN 65:57247
OREF 65:10697f,10698a
TI Polymerization inhibitors
PA Copolymer Rubber and Chemical Corp.
SO 22 pp.
DT Patent
LA Unavailable
IC C08F
CC 45 (Synthetic High Polymers)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	NL 65011747		19660311	NL	
PRAI	US		19640910		

AB Org. N-nitroschydroxylamines or salts thereof are used in vinylpyridine, unsatd. hydrocarbons, and unsatd. esters to inhibit thermal polymerization and (or) the growth of popcorn polymer therein, e.g. during storage. They need not be removed prior to use of the monomers in catalytic polymerizations. NH4 salts of **N-nitroso-N-phenylhydroxylamine** (I) or of N-nitroso-N-(1-naphthyl)hydroxylamine are very useful. I is twice as effective as a thermal polymerization inhibitor than the conventional tert-butylpyrocatechol (II). Copolymerization of butadiene with styrene by a cold rubber polymerization process is not retarded by I while II prevents any reaction.

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	49.53	49.74

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.34	-4.34

FILE 'STNGUIDE' ENTERED AT 13:54:27 ON 29 JUN 2002
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 21, 2002 (20020621/UP).

=> s 148-97-0/rn
'RN' IS NOT A VALID FIELD CODE
L5 0 148-97-0/RN

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.72	50.46

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-4.34

FILE 'CAPLUS' ENTERED AT 14:01:43 ON 29 JUN 2002
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 29 Jun 2002 VOL 137 ISS 1
FILE LAST UPDATED: 27 Jun 2002 (20020627/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

```
=> s 148-97-0/rn
            79 148-97-0
            30 148-97-0D
L6          54 148-97-0/RN
                 (148-97-0 (NOTL) 148-97-0D )

=> d hsi
'HSI' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
```

```
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT)
              containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and
              its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and
              its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its
              structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field
codes.  For a list of the display field codes, enter HELP DFIELDS at
an arrow prompt (=>).  Examples of formats include: TI; TI,AU; BIB,ST;
TI,IND; TI,SO.  You may specify the format fields in any order and the
information will be displayed in the same order as the format
specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR,
FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC
to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):his
'HIS' IS NOT A VALID FORMAT FOR FILE 'CAPLUS'

The following are valid formats:

ABS --------- GI and AB
ALL --------- BIB, AB, IND, RE
APPS -------- AI, PRAI
BIB --------- AN, plus Bibliographic Data and PI table (default)
CAN --------- List of CA abstract numbers without answer numbers
CBIB -------- AN, plus Compressed Bibliographic Data
DALL -------- ALL, delimited (end of each field identified)
DMAX -------- MAX, delimited for post-processing
FAM --------- AN, PI and PRAI in table, plus Patent Family data
FBIB -------- AN, BIB, plus Patent FAM
IND --------- Indexing data
IPC --------- International Patent Classifications
MAX --------- ALL, plus Patent FAM, RE
PATS -------- PI, SO
SAM --------- CC, SX, TI, ST, IT
SCAN -------- CC, SX, TI, ST, IT (random display, no answer numbers;
              SCAN must be entered on the same line as the DISPLAY,
              e.g., D SCAN or DISPLAY SCAN)
STD --------- BIB, IPC, and NCL

IABS -------- ABS, indented with text labels
IALL -------- ALL, indented with text labels
IBIB -------- BIB, indented with text labels
IMAX -------- MAX, indented with text labels
ISTD -------- STD, indented with text labels

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels
```

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

HIT --------- Fields containing hit terms
HITIND ------ IC, ICA, ICI, NCL, CC and index field (ST and IT) containing hit terms
HITRN ------- HIT RN and its text modification
HITSTR ------ HIT RN, its text modification, its CA index name, and its structure diagram
HITSEQ ------ HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
FHITSTR ----- First HIT RN, its text modification, its CA index name, and its structure diagram
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its structure diagram, plus NTE and SEQ fields
KWIC -------- Hit term plus 20 words on either side
OCC --------- Number of occurrence of hit term and field in which it occurs

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of formats include: TI; TI,AU; BIB,ST; TI,IND; TI,SO. You may specify the format fields in any order and the information will be displayed in the same order as the format specification.

All of the formats (except for SAM, SCAN, HIT, HITIND, HITRN, HITSTR, FHITSTR, HITSEQ, FHITSEQ, KWIC, and OCC) may be used with DISPLAY ACC to view a specified Accession Number.
ENTER DISPLAY FORMAT (BIB):bib

L6 ANSWER 1 OF 54 CAPLUS COPYRIGHT 2002 ACS
AN 2002:353510 CAPLUS
DN 136:370166
TI Irradiation process for making olefin graft copolymers with low molecular-weight side chains
IN Dang, Vu A.; Phan, Tam T. M.; Smith, Jeanine A.; Song, Cheng Q.
PA Basell Technology Company B.V., Neth.
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002036650	A1	20020510	WO 2001-IB2014	20011026

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-704325 A 20001102
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
=> d his

     (FILE 'HOME' ENTERED AT 13:50:18 ON 29 JUN 2002)

     FILE 'CAPLUS' ENTERED AT 13:50:27 ON 29 JUN 2002
L1             0 S N-NITROS-N-PHENYLHYDROXYLAMINE
L2            44 S N-NITROSO-N-PHENYLHYDROXYLAMINE
L3           803 S 100-65-2/RN
L4             0 S L2 AND L3

     FILE 'STNGUIDE' ENTERED AT 13:54:27 ON 29 JUN 2002
L5             0 S 148-97-0/RN

     FILE 'CAPLUS' ENTERED AT 14:01:43 ON 29 JUN 2002
L6            54 S 148-97-0/RN

=> s 3710-84-7/rn
           739 3710-84-7
            15 3710-84-7D
L7         726 3710-84-7/RN
                (3710-84-7 (NOTL) 3710-84-7D )

=> s l6 and l7
L8             6 L6 AND L7

=> d l8 ti

L8   ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2002 ACS
TI   Irradiation process for making olefin graft copolymers with low
     molecular-weight side chains


=> d l8 2-6 ti

L8   ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2002 ACS
TI   Preparation of polyolefin graft copolymers with low molecular weight side
     chains by using polymeric peroxide as initiator

L8   ANSWER 3 OF 6  CAPLUS  COPYRIGHT 2002 ACS
TI   Stabilized monomer composition

L8   ANSWER 4 OF 6  CAPLUS  COPYRIGHT 2002 ACS
TI   Preparation of alicyclic epoxidated dihydrodicyclopentadienyl
     (meth)acrylates as monomers

L8   ANSWER 5 OF 6  CAPLUS  COPYRIGHT 2002 ACS
TI   Manufacture of epoxycyclohexylmethyl (meth)acrylates

L8   ANSWER 6 OF 6  CAPLUS  COPYRIGHT 2002 ACS
TI   Epoxidation of cyclohexenylmethyl (meth)acrylate in presence of
     polymerization inhibitors


=> d l8 6 ali

L8   ANSWER 6 OF 6  CAPLUS  COPYRIGHT 2002 ACS
AN   1990:632247  CAPLUS
```

Enter a chemical name, CAS Number, molecular formula, or molecular weight

New Search

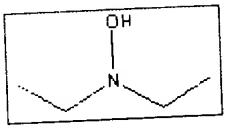
Or choose: Substructure Query with Plug-In or Structure Query with Java

diethyl hydroxylamine [3710-84-7]

Synonyms: Ethanamine, N-ethyl-N-hydroxy-; N,N-Diethylhydroxylamine;

$C_4H_{11}NO$

89.137



View with ChemDraw Plugin

BUY AT CHEMACX.COM

VIEW CHEM3D MODEL

Add Compound | Add or Change Property | Add Link | Feedback

ACX Number	X1009492-5
Melting Point (°C)	-26 - -25
Boiling Point (°C)	125 - 130
Refractive Index	
Evaporation Rate	
Flash Point (°C)	45
DOT Number	
Comments	HYGROSCOPIC.

CAS RN	3710-84-7
Density	0.867
Vapor Density	
Vapor Pressure	
Water Solubility	
EPA Code	
RTECS	NC3500000

More information about the chemical is available in these categories:

Chemical Online Order

Available Chemicals Exchange

Information about this particular compound

Physical Properties

Environmental Science Center database with Experimental Log P coefficients etc.

Information about this particular compound

L8 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS
AN 1990:632247 CAPLUS
DN 113:232247
TI Epoxidation of cyclohexenylmethyl (meth)acrylate in presence of polymerization inhibitors
IN Fukuya, Kazuaki; Kuwana, Akihiro
PA Daicel Chemical Industries, Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM C07D301-36
ICS C07D303-16; C08F020-32; C08G059-20; C09D004-02; C09D133-06; C09D163-00
CC 35-2 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 27
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 02188576	A2	19900724	JP 1989-5816	19890112
JP 2704384	B2	19980126		

OS MARPAT 113:232247
AB 3,4-Epoxycyclohexylmethyl acrylate and methacrylate (I) are prepd. by epoxidn. of 3-cyclohexen-1-ylmethyl acrylate and methacrylate (II) with an oxidizing agent in the presence of polymn. inhibitors comprising .gtoreq.1 compd. selected from hydroquinone, hydroquinone mono-Me ether (III), p-benzoquinone, cresol, tert-butylcatechol, phenols substituted by tert-Bu and other groups, 2,5-dihydroxy-p-quinone, piperidine, ethanolamine, .alpha.-nitroso-.beta.-naphthol, HNPh2, phenothiazine, N-nitrosophenylhydroxylamine, and Et2NOH and .gtoreq.1 compd. selected from H3PO4, K3PO4, Na3PO4, Na(NH4)HPO4, H4P2O7, K4P2O7, Na4P2O7, 2-ethylhexyl pyrophosphate, K or Na 2-ethylhexyl pyrophosphate, tripolyphosphoric acid, K or Na 2-ethylhexyl tripolyphosphate, and Na or K 2-ethylhexyl tetrapolyphosphate. Thus, a mixt. of 14.4 kg II, 52.8 kg AcOEt, 12 g III, and 12 g H4P2O7 was treated with 24.8 kg 30% AcOOH during 4 h at 50.degree. and aged 4 h to give 14.2 kg product contg. 94.7% I, 1 g of which dissolved completely in 10 g heptane.
ST epoxycyclohexylmethyl acrylate prepn polymn inhibitor; methacrylate epoxycyclohexylmethyl prepn polymn inhibitor; epoxidn cyclohexenylmethyl acrylate polymn inhibitor; hydroquinone polymn inhibitor methacrylate; pyrophosphoric polymn inhibitor acrylate; phenol polymn inhibitor acrylate; amine polymn inhibitor acrylate; phosphate polymn inhibitor acrylate
IT Polymerization inhibitors
(in epoxidn. of cyclohexenylmethyl (meth)acrylate)
IT Epoxidation
(of cyclohexenylmethyl (meth)acrylate, polymn. inhibitors in)
IT Phenols, uses and miscellaneous
RL: USES (Uses)
(polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)
IT 21367-02-2, 3-Cyclohexen-1-ylmethyl acrylate 21367-03-3,

3-Cyclohexen-1-ylmethyl methacrylate
RL: RCT (Reactant)
(epoxidn. of, polymn. inhibitors in)

IT 88-32-4, 3-tert-Butyl-4-methoxyphenol 92-84-2, Phenothiazine 106-51-4, p-Benzoquinone, uses and miscellaneous 110-89-4, Piperidine, uses and miscellaneous 121-00-6, 2-tert-Butyl-4-methoxyphenol 122-39-4, Diphenylamine, uses and miscellaneous 123-31-9, Hydroquinone, uses and miscellaneous 128-37-0, 2,6-Di-tert-butyl-p-cresol, uses and miscellaneous 131-91-9, .alpha.-Nitroso-.beta.-naphthol 141-43-5, Ethanolamine, uses and miscellaneous **148-97-0** 150-76-5, Hydroquinone monomethyl ether 615-94-1 1319-77-3, Cresol 1693-78-3, 2-Ethylhexyl pyrophosphate 1879-09-0, 2,4-Dimethyl-6-tert-butylphenol 2466-09-3, Pyrophosphoric acid **3710-84-7**, N,N-Diethylhydroxylamine 7320-34-5, Potassium pyrophosphate 7632-05-5, Sodium phosphate 7664-38-2, Phosphoric acid, uses and miscellaneous 7722-88-5 10380-08-2, Tripolyphosphoric acid 12767-83-8, Sodium 2-ethylhexyl tripolyphosphate 13011-54-6, Ammonium sodium hydrogen phosphate 16068-46-5, Potassium phosphate 27213-78-1, tert-Butylcatechol 130455-01-5 130455-02-6 130455-03-7 130455-65-1
130455-66-2
RL: USES (Uses)
(polymn. inhibitors, in epoxidn. of cyclohexenylmethyl (meth)acrylate)

IT 64630-63-3P, 3,4-Epoxycyclohexylmethyl acrylate 82428-30-6P, 3,4-Epoxycyclohexylmethyl methacrylate
RL: PREP (Preparation)
(prepn. of, by epoxidn., polymn. inhibitors in)